LP S '. O. 'HONE	Environmental Prote ample Management Of Box 818, Alexandri : (703)/557-2490 or	rice ia, Virginia 22313 - FTS/557-2490	SAS Number	
1	Dennis Win	SPECIAL ANALYTICAL SERVICES Contact Client Request	•.	
	Regional Transi	mittal Telephone Reque	st	
;	. Region/Client:	V / WESTON		
8.	RSCC Representative	Dennis Wesoloski		
c. 1	Telephone Number:	(312) 886-1971		
D. [Date of Request:	August 10, 1986		
ε. :	Site Name:	Skinner Landfill	11	
the	Contract Laboratory	description of your request for Sprogram. In order to most efficient	iently obtain laboratory cap	ability
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4.	Estimated date(s) of collection: Weeks of August 18 and August 25, 1986
5.	Estimated date(s) and method of shipment: Weeks of August 18 and August 25, 1986
6.	Number of days analysis and data required after laboratory receipt of samples:
	· 30 days
7.	Analytical protocol required (attach copy if other than a protocol currently used in this program):
	Analyze for the compounds in Table I using GC/EC. Extraction of pesticide
	(GC/EC) analysis performed according to IFB WA JESS/839. For analysis, lab should use various temperature programs and combinations of dissimilar capillary
	columns to achieve resolution of all seven compounds to a level of less than a
	25% valley. Lab must use a second dissimlar column for confirmation. For any
	samples where compounds are found in quantities greater than requested detection
	limit for GC/MS (Table I) these samples must be run using GC/MC according to IFB
	WA J \$38/85 for Acid/Base/Neutral fraction. Quantitation should be on the
-	Thangest ion with no interference
8.	Special technical instruction (if outside protocol requirements, specify compound names, CAS numbers, detection limits, etc.): For GC/EC analysis
	the following compounds should be chromatographed separately on both columns and
	then mixed and run as a standard mix to show the resolution of the chromatography.
	A three point calibration must be run as per IFB:
	Hexachloronorboradiene Ocachlorocyclopentene
	Heptachloronorborene Chlordene
	For samples of sufficient concentration to be analyzed by GC/MS, a three point calibrates to be done using the mix of compounds. For both methods, internal standards(see a
9.	Analytical results required (if known, specify format for data sheets, OA/OC reports, Chain-of-Custody documentation, etc.). If not completed, format of results will be left to program discretion.
	664 LRC Lab must submit all spectra, calibration forms etc. as per JFR WA 85 JR38/839 success
	combinations of temperature programs and columns should be identified and accompanied
	by all IFB required data, All charmato chams of sample. AND 670. CALIBRATIONS MUST BE RECONTITED.
10	. Other (use additional sheets or attach supplementary information, as needed):
11	. Name of sampling/shipping contact: Wendy Dewar
	Phone: 312 786 1313

8. Continued

must be used as per IFB, and The above compounds acceptance as The matrix spike AT 6x The DETECTION LIMIT.

Alumina column cleanup Should show A RECOVERY >80% (SAME AS FOR OTHER COMPOUNDS)*

IF < 807. CALL EPA REGION I

		•••
DATA REQUIREMENTS	•	
Parameter:	Detection Limit	Precision Desired
See Table I		(+2 or Conc.)
See larie !		±20 for both metho
		• .
	Control of the Contro	
OC REQUIREMENTS		
Audits Required	Frequency of Audits	Limits* (% or Conc
•		12.00
Marrix Spike/Matrix Spike Dup.	One per 10 samples or 155	35X-135X R
2007 TS 234		•
Laboratory Blank	One per 10 samples or 65	As per IFB
Surrogates	As per IFB	
S-mousised on 7-516 II	•	
. ACTION REQUIRED IF LIMITS AR	•	٠,
Contact Dennis Wesoloski -	Region V EPA (3	12) 886-1971
-		

case-return this request to the Sample Management Office as soon as possible to expedite occasing of your request for special analytical services. Should you have any questions need any assistance, please call the Sample Management Office.

TABLE I

Task: Analysis of soil extracts for seven organochloride hydrocarbons, 3 of which are currently HSL compounds and 4 of which are not. To be analyzed using GC/EC and GC/MS.

Compound	Requested Limit for GC/EC (ug/l)	Requested Limit for GC/MS (ug/l)
Hexachlorobenzene *	0.05	1.5
Hexachlorocyclopentadiene *	0.10	2.0
Hexachlorobutadiene *	0.05	1.0
Hexachloronorboradiene	0.05 O.O2	1.0
Octachlorocyclopentene	0.05 0.02	1.0
Heptachloronorborene	0.05 0.02	1.0
Chlordene	0.05	1.0

* HSL Compunals

Include table here for soil DL'S

TABLE II

QC LEVEL OF EFFORT FOR CLP ANALYTICAL SERVICES

Method of Analysis GC/MS	Lab Blanks One per set of samples or a min- imum of 1 in 10	Spikes or Surrogates/Spikes Surrogates added to each sample and matrix spikes added to one sample per set	Lab Duplicates • NR	Matrix Spike Duplicate One per set of samples or a minimum of 1 in 10
GC/EC	One per set of samples or a min- imum of 1 in 10	added to each. sample & matrix spikes (using all target compounds) added to one in 10 samples.	One per set of samples or a min- imum of 10-//n/O	One per set of samples or a minimum of 1 in 10